LENA State Log

00 085 21:30:34 (25 Mar) 1	time (UT)	<u>event</u>
18:00 instrument off	00 085 21:30:34 (25 Mar)	launch
112 16:13 (21 Apr) set overcount threshold to 2AF8 14:52	087 06:00 (27 Mar)	instrument on –liveness test
115 14:40 (24 Apr) set overcount threshold to 2AF8 14:52	18:00	instrument off
14:52 HVPS unsafed 14:53 normal mode implemented 15:03 voltage thresholds to AA AA 74 74 51 15:04 current thresholds to Fx5 15:14 start/stop CFDs to level 8 15:19 start/stop MCPs to level 0 15:30 start/stop MCPs to level 20 15:37 start/stop MCPs to level 40 15:51 start/stop MCPs to level 40 15:51 start/stop MCPs to level 50 16:01 start/stop MCPs to level 60 16:08 voltage thresholds to D5 D5 91 91 73 16:09 start/stop MCPs to level 70 16:17 start/stop MCPs to level 80 16:31 start/stop MCPs to level 80 16:31 start/stop MCPs to level 80 16:42 start/stop MCPs to level 90 116 03:20 (25 Apr) overcount pushes start/stop MCPs to level 72 119 12:12 (28 Apr) start/stop MCPs to level 88 12:23 start/stop MCPs to level 88 12:23 start/stop MCPs to level 88 12:23 start/stop MCPs to level 80 12:19 start/stop MCPs to level 80 12:30 coll plus/coll minus to level 90 12:40 coll plus/coll minus to level 90 12:53 coll plus/coll minus to level 10 12:53 coll plus/coll minus to level 10 13:13 coll plus/coll minus to level 30 (+/- 2.7) 13:27 coll plus/coll minus to level 30 (+/- 3.2) 13:46 coll plus/coll minus to level 30 (+/- 3.2) 13:46 coll plus/coll minus to level 50 (+/- 4.1) 14:07 coll plus/coll minus to level 50 (+/- 4.1) 14:07 set overcount pushes start/stop MCPs to level 72 and coll plus/minus to level 90 19:11 start/stop MCPs to level 88 19:19 start/stop MCPs to level 88 19:29 start/stop MCPs to level 88	112 16:13 (21 Apr)	instrument on
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120 18:42 (29 Apr) start/stop CFDs to level 2/6 (Denver levels)		•
	120 18:42 (29 Apr)	start/stop CFDs to level 2/6 (Denver levels)

122 23:51 (1 May)	stop MCP to level 50
23:59	stop MCP to level 60
123 00:06 (2 May)	stop MCP to level 70
00:17	stop MCP to level 80
124 01:40 (3 May)	optics to level 0
01:48	optics enabled
02:08	optics to level 10
02:21	optics to level 20
02:38	optics to level 30
03:00	optics to level 40
03:14	optics to level 50
03:32	voltage thresholds to D5 D5 91 91 86
03:45	optics to level 60
04:13	optics to level 68
04:33	voltage thresholds to D5 D5 91 91 97
04:38	optics to level 70
04:53	optics to level 78
126 21:13 (5 May)	set position sensing to low gain
148 11:07 (27 May)	set steering controller to level 0
11:13	enabled steering controller stepping table
11:23	disabled steering controller stepping table
11:33	set steering controller to level 20
11:43	set steering controller to level 40
12:05	set steering controller to level 60
12:25	set steering controller to level 80
155 02:52 (3 June)	redefine mass 1 bin to 27-2B (bin 156-175)
02:54	stop MCP to level 90
03:53	coll plus/coll minus to level 10 (+/- 2.4)
04:07	coll plus/coll minus to level 20 (+/- 2.7)
04:22	coll plus/coll minus to level 30 (+/- 3.2)
04:37	coll plus/coll minus to level 40 (+/- 3.6)
04:52	coll plus/coll minus to level 50 (+/- 4.1)
05:10	coll plus/coll minus to level 60 (+/- 4.4)
10:10	*** start of uploaded commanding ***
16:40	*** all S/I's including LENA safed ***
156 18:33 (4 June)	instrument on
18:56	HVPS unsafed
18:57	normal mode implemented
19:02	voltage thresholds to AA AA 74 74 51
	current thresholds to FFx5
	MCP's, optics and coll to level 0
19:08	MCP's, optics and coll enabled
19:43	set overcount threshold to FFFF (disabled)
19:51	start/stop CFDs to level 2/6 (Denver levels)
19:53	set position sensing to low gain
19:53	set steering controller to level 0

19:55	redefine mass 1 bin to 27-2B (bin 156-175)
20:03	MCP's to level 20, coll/optics to level 10
20:11	MCP's to level 40
20:22	MCP's to level 50
157 18:06 (5 June)	coll/optics to level 20
18:12	MCP's to level 60
18:21	voltage thresholds to D5 D5 91 91 73
18:21	MCP's to level 70, coll/optics to level 30
18:42	MCP's to level 80, coll/optics to level 40
18:53	start MCP to level 88
19:00	coll/optics to level 50
19:06	start MCP to level 90
158 22:29 (6 June)	voltage thresholds to D5 D5 91 91 86
22:29	optics to level 60
22:39	optics to level 68, coll to level 60
22:48	voltage thresholds to D5 D5 91 91 97
22:49	optics to level 70
23:34	optics to level 78
23:40	stop MCP to level 88
23:47	stop MCP to level 90
159 10:10 (7 June)	*** start of uploaded commanding ***
161 22:00 (9 June)	redefine mass bin 1 to 0-7F and mass bin 2 to 80-FF
22:01	stop MCP to level 90
	*** all S/I's including LENA safed ***
169 12:10 (17 June) 172 02:07 (20 June)	instrument on
02:27	HVPS unsafed
02:27	normal mode implemented
02:32	_
02.32	voltage thresholds to AA AA 74 74 51 current thresholds to FFx5
02.28	MCP's, optics and coll to level 0
02:38	MCP's, optics and coll enabled
173 03:01 (21 June)	MCP's to level 20, coll/optics to level 10
03:07	set overcount threshold to level FFFF (disabled)
03:08	start/stop CFDs to level 2/6 (Denver levels)
03:10	set position sensing gain to low
03:15	MCP's to level 40
03:24	MCP's to level 50
03:30	coll/optics to level 20
03:37	MCP's to level 60
03:45	voltage thresholds to D5 D5 91 91 73
02.52	MCP's to level 70, coll/optics to level 30
03:53	MCP's to level 80, coll/optics to level 40
04:01	MCP's to level 88
04:11	coll/optics to level 50
04:17	MCP's to level 90
04:23	voltage thresholds to D5 D5 91 91 86

04:29	optics to level 68, coll to level 60
04:34	voltage thresholds to D5 D5 91 91 97
04.54	optics to level 70
04:38	optics to level 78
04:43	optics to level 80 (12.1 kV)
15:46	*** start of uploaded commanding ***
176 05:14 (24 June)	HVPS error flag reset (no impact error)
180 19:55 (28 June)	HVPS error flag reset (no impact error)
195 15:20 (13 July)	HVPS error flag reset (no impact error)
196 16:50 (14 July)	coll plus/coll minus lowered to level 00 due to overcount
190 10.90 (14 July)	optics lowered to level 76 (11.3 kV) due to overcount
213 00:28 (31 July)	uploaded LENA FSW V3.3 to CIDP
00:49	optics to level 33
00:53	global off (all supplies to 00, disabled and safed)
00:58	instrument reset sent
01:35	instrument reset sent
02:06	
02:00	uploaded LENA FSW V3.3 to CIDP (reversing header byte order)
02:42	instrument reset sent CIDP commanded LENA off
02:44	
	instrument on
03:00 03:17	uploaded LENA FSW V3.3 to CIDP CIDP commanded LENA off
03:20	instrument on
03:37	uploaded LENA FSW V3.3 to CIDP (using old header byte order)
03:55	instrument reset sent
0413	HVPS unsafed
04.10	normal mode implemented
04:19	voltage thresholds to AA AA 74 74 51 current thresholds to FFx5
04:20	
04:25	MCP's, optics and coll to level 0
04:31	MCP's, optics and coll enabled
	MCP's to level 20, optics to level 10 MCP's to level 40
04:36 04:40	MCP's to level 40 MCP's to level 50
04:53	
04:56	optics to level 20 MCP's to level 60
05:01 05:02	voltage thresholds to D5 D5 91 91 73
05:07	MCP's to level 70, optics to level 30
	MCP's to level 80, optics to level 40 MCP's to level 88
05:12	
05:17	optics to level 50
05:21	MCP's to level 90
05:25	voltage thresholds to D5 D5 91 91 86
05:26 05:29	optics to level 60
	optics to level 68
05:33	voltage thresholds to D5 D5 91 91 97

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05:34
                          optics to level 70
    05:37
                          optics to level 78
                          optics to level 80
    05:42
    05:47
                           collimators enabled (+/- 1.8)
    05:56
                          coll to level 10 (+/- 2.4)
    06:00
                          coll to level 20 (+/- 2.7)
    06:04
                          coll to level 30 (+/- 3.2)
    06:08
                          coll to level 40 (+/- 3.6)
                          coll to level 50 (+/- 4.1)
    06:12
    06:17
                          coll to level 60 (+/- 4.4)
                           *** end of uploaded commanding *** (deleted queue)
    06:18
                           saved MCP stop supply state
    06:21
                           set overcount threshold to level 0023 (296 kHz)
    06:27
    06:33
                           set overcount threshold to level 0017 (194 kHz)
    06:37
                          enabled stop MCP overcount auto restore
214 18:52 (1 August)
                           set overcount threshold to level 000B (93 kHz)
    18:56
                           set memory read to 05 A0 01 00 (engineering data)
230 20:09 (17 August)
                          set memory read to 20 2D 01 00 (A111 amplitude data)
```